

## About Aubrey Pule Khoza





- Lecturer at the department of Computer Science at the Tshwane University of Technology in South Africa
- Passionate about Delphi since Borland Delphi 6
- Software Engineer in various industry projects
- Lives in Pretoria (South Africa)



Cricket Fan























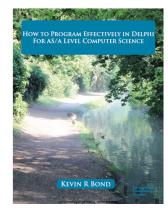


### Session outline



- Understanding REST Web Services
- Consuming Web Services
- Web Service Examples
- MusicDelphi Application Tutorial

### Textbook reference chapters



Chapters 68 to 72





















- SessionXX
  - Extras
  - Presentation
  - Sample\_Applications

### Web Services



- Web services are application blocks that can be published online and made available to the rest of the world for consumption.
- Instead of reinventing the wheel and recreating the same solution by multiple organizations, these organizations can access and use a prebuilt application component.
- In this Session, we will use the "getartist" web service available online from lastfm which will allow us to get artist information for artists around the world.





















## Consuming Web Services



- We consume web services by using the operations that they provide
- Delphi makes it easier to consume web service by automatically extracting web service information and creating classes and interfaces that you can use to consume web service methods





















### Last-FM get-artist Web Service



lost.fm

Q Live Music Charts

### artist.getInfo

Get the metadata for an artist. Includes biography, truncated at 300 characters.

#### **Example URLs**

 $\textbf{JSON:} \ /2.0/?method=artist.getinfo\&artist=Cher\&api\_key=YOUR\_API\_KEY\&format=json \ \underline{\square}$ 

XML: /2.0/?method=artist.getinfo&artist=Cher&api\_key=YOUR\_API\_KEY [3]

#### **Params**

artist (Required (unless mbid)] : The artist name

mbid (Optional): The musicbrainz id for the artist

lang (Optional): The language to return the biography in, expressed as an ISO 639 alpha-2 code.

autocorrect[011](Optional): Transform misspelled artist names into correct artist names, returning the correct version instead. The corrected artist name will be returned in the response.

**username** (Optional): The username for the context of the request. If supplied, the user's playcount for this artist is included in the response.

api\_key (Required): A Last.fm API key.

#### Auth

This service does not require authentication.





















## Last-FM get-artist Web Service



#### **Sample Response**

```
<name>Cher</name>
<mbid>bfcc6d75-a6a5-4bc6-8282-47aec8531818</mbid>
<url>http://www.last.fm/music/Cher</url>
<image size="small">http://userserve-ak.last.fm/serve/50/285717.jpg</image>
<image size="medium">http://userserve-ak.last.fm/serve/85/285717.jpg</image>
<image size="large">http://userserve-ak.last.fm/serve/160/285717.jpg</image>
 teners>196440
  <plays>1599101</plays>
   <name>Madonna</name>
   <url>http://www.last.fm/music/Madonna</url>
   <image size="small">http://userserve-ak.last.fm/serve/50/5112299.jpg</image>
   <image size="medium">http://userserve-ak.last.fm/serve/85/5112299.jpg></image>
   <image size="large">http://userserve-ak.last.fm/serve/160/5112299.jpg</image>
   <name>pop</name>
   <url>http://www.last.fm/tag/pop</url>
 <published>Thu, 13 Mar 2008 03:59:18 +0000</published>
```





















# String Grid for Music Delphi



